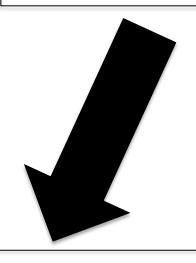
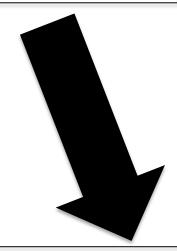
Transitioning Research to Improving NOAA Sub-seasonal Forecast Products

Subseasonal NMME Project



Real-time Pilot

Goal: Demonstrate Capacity



Re-forecast Experiment

Goal: Provide a basis to support research for improving suseasonal products with link to real-time

- > Set of hindcasts
- Case studies

Re-forecast Experiment Protocol – Critical Issues

- 1. Length of hindcast (1995-2015? Longer?)
- 1. Initialize all months
- 1. Minumum 45-days
- 2. Coupled or atm-only models?
- 1. Atm, ocn, land initialized
- 1. Method of initialization ??
- 2. Frequency of Initialization(at least 1xper week)
- 1. Number of perturbations/ensemble members?
- 2. Method of perturbations (burst vs. lagged)?
- Resolution?

Case Studies

- 1. Large # of ensemble members
- 1. High resolution
- 1. Variables that could be used for downscaling
- 1. Test issues of high top, initialization strategies & many other scientific questions discussed

Real-time Pilot Project

- Build upon RMM reforecast experiment (Pegion and Kirtman) and apply in realtime for a finite length of time (a few months)
- Reduced data required (U850, U200 and OLR, 15N-15S averaged), testing with constraints the increase in operational tempo and finally contribute operational MJO assessment activity

Requirements: will need to build up subset of re-forecasts first for this pilot project